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PATENT  
Attorney Docket No.: 019934-003360US

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

On

March 16, 2004



TOWNSEND and TOWNSEND and CREW LLP

By:

MTD

Mark T. Davis

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

BURNS et al.

Application No.: 10/698,541

Filed: October 30, 2003

For: COMPOSITIONS AND METHODS  
FOR DETECTING AND TREATING  
DISEASES AND CONDITIONS  
RELATED TO CHEMOKINE  
RECEPTORS

Examiner: Not yet assigned

Art Unit: Not yet assigned

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR §1.97 and  
§1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:


The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Also enclosed are copies of the Search/Examination report corresponding to the PCT application and Partial Search/Examination report corresponding to the European application.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



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60145184 v1

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/698,541
Filing Date	October 30, 2003
First Named Inventor	Burns, Jennifer M., et. al.
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	019934-003360US

## U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-5,994,519	11-30-1999	Osborn et al.	
	AB	US-6,084,075	07-04-2000	Lind et al.	
	AC	US-6,140,064	10-31-2000	Loetscher et al.	
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	AE	US-6,180,336 B1	01-30-2001	Osborn et al.	
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	AI	US-2002/0004215 A1	01-10-2002	Osborn et al.	
	AJ	US-2002/0025536 A1	02-28-2002	Gyuris et al.	
	AK	US-2002/0034757 A1	03-21-2002	Cubiciotti	
	AL	US-2002/0037539 A1	03-28-2002	Qin et al.	
	AM	US-6,365,356 B1	04-02-2002	Gershengorn	
	AN	US-2002/0048786 A1	04-25-2002	Rosen et al.	
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	AQ	US-2002/0064770 A1	05-30-2002	Nestor, Jr. et al.	
	AR	US-2002/0076710 A1	06-20-2002	Papsidero et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	AS	WO	98/11218	A1	03-19-1998			<input type="checkbox"/>
	AT	WO	98/14480	A1	04-09-1998			<input type="checkbox"/>
	AU	WO	99/50461	A1	10-07-1999			<input type="checkbox"/>
	AV	EP	0897980	A2	02-24-1999			<input type="checkbox"/>

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 2

**Complete if Known**

Application Number	10/452,0150
Filing Date	May 30, 2003
First Named Inventor	Burns, Jennifer M., et. al.
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	019934-003330US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AW	BABCOCK, Gregory J. et al.; "Ligand Binding Characteristics of CXCR4 Incorporated into Paramagnetic Proteoliposomes"; <u>The Journal of Biological Chemistry</u> 2001, Vol. 276 No. 42, pp. 38433-38440.	
	AX	BARIBAUD, Frederic et al.; "Antigenically Distinct Conformations of CXCR4"; <u>Journal of Virology</u> 2001, Vol. 75 No. 19, pp. 8957-8967.	
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	BA	FORSTER, Reinhold et al.; "Intracellular and Surface Expression of the HIV-1 Coreceptor CXCR4/Fusin on Various Leukocyte Subsets: Rapid Internalization and Recycling Upon Activation"; <u>The Journal of Immunology</u> 1998, Vol. 160, pp. 1522-1531.	
	BB	GERLACH, Lars Ole et al.; "Molecular Interactions of Cyclam and Bicyclam Non-peptide Antagonists with the CXCR4 Chemokine Receptor"; <u>The Journal of Biological Chemistry</u> 2001, Vol. 276 No. 17, pp. 14153-14160.	
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	BF	MOEPPS, Barbara et al.; "Two murine homologues of the human chemokine receptor CXCR4 mediating stromal cell-derived factor 1α activation of G <sub>12</sub> are differently expressed <i>in vivo</i> "; <u>Eur. J. Immunol.</u> 1997, Vol. 27, pp. 2102-2112.	
	BG	MULLER, Anja et al.; "Involvement of chemokine receptors in breast cancer metastasis"; <u>Nature</u> 2001, Vol. 410, pp. 50-56.	
	BH	PAROLIN, Cristina et al.; "Use of Murine CXCR-4 as a Second Receptor by Some T-Cell-Tropic Human Immunodeficiency Viruses"; <u>Journal of Virology</u> 1998, Vol. 72 No. 2, pp. 1652-1656.	
	BI	WEGNER, Scott A. et al.; "Genomic Organization and Functional Characterization of the Chemokine Receptor CXCR4, a Major Entry Co-receptor for Human Immunodeficiency Virus Type 1"; 1998 <u>The Journal of Biological Chemistry</u> 1998 Vol. 273 No. 8, pp. 4754-4760.	
	BJ	YOSHIDA, Tetsuya et al.; "Identification of Single C Motif-1/Lymphotactin Receptor XCR1"; <u>The Journal of Biological Chemistry</u> 1998, Vol. 273 No. 26, pp. 16551-16554.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.